GW Instek GPP-1205/1323
Single Channel Programming Linear DC Power Supply
New Product Announcement

This document allows GW Instek's partners to quickly grasp product's main features, FAB and ordering information.

GW INSTEK
Simply Reliable

The GPP-1000 series is a high-precision programmable DC power supply, featuring voltage resolution of up to 1 mV / 0.1 mV and offering three levels of current resolution, with a maximum resolution of 1 μA / 0.1 μA to ensure accuracy in precision testing. The device supports both Constant Voltage (CV) and Constant Current (CC) modes, and includes a switchable power supply and electronic load function, making it suitable for a wide range of testing environments. The series includes two models: the GPP-1205 (20 V / 5 A / 100 W) and the GPP-1323 (32 V / 3 A / 96 W), offering flexible output power options.

The GPP-1000 series is equipped with built-in Remote Sense functionality, which compensates for voltage drops caused by lead resistance, ensuring accurate output. Additionally, the series offers data collection and logging capabilities, allowing users to track test data for further analysis. To enhance flexibility, the GPP-1000 series supports external series or parallel connections of up to four units, making it suitable for higher power testing requirements.

In terms of safety, the GPP-1000 series is equipped with built-in protections including OVP (Over Voltage Protection), OCP (Over Current Protection), OTP (Over Temperature Protection), and reverse polarity protection to ensure stable operation of both the device and the connected load. A front panel lock function is also provided to prevent accidental operation, enhancing operational safety. The communication interface supports USB-TMC/CDC and LAN, with optional GPIB available to meet remote control requirements. The series features a 2.4-inch TFT-LCD for clear data visualization, and is equipped with an intelligent temperature-controlled fan to effectively reduce noise and improve cooling efficiency.

Overall, the GPP-1000 series stands out as one of the most powerful programmable DC power supplies on the market, thanks to its high resolution, versatile communication interfaces, comprehensive safety protections, and flexible application modes. Whether used in R&D, testing, or production environments, it delivers stable and efficient power solutions to meet a wide range of user needs. This power supply not only enhances the technical capabilities of conventional equipment but also exemplifies the direction of modern test equipment development—making testing processes more accurate, convenient, and efficient.

	Voltage	Current	Max. Power
GPP-1205	0 V to 20 V	0 A to 5 A	100 W
GPP-1323	0 V to 32 V	0 A to 3 A	96 W

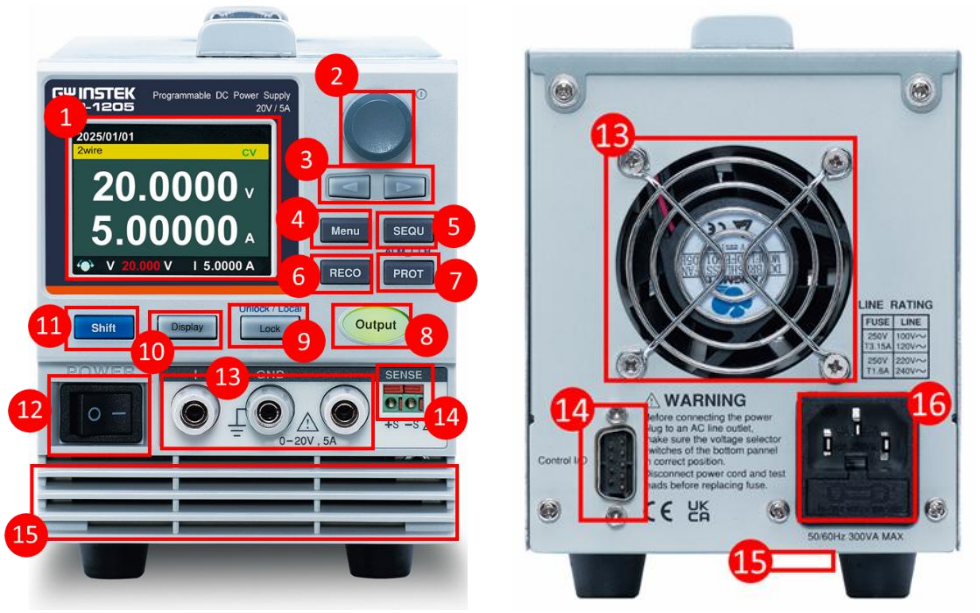
Features

- 1 mV / 0.1 mV Voltage Setting/Readback Resolution: 1 mV / 0.1 mV
- The Current Provides Three Settings/Readback Resolutions: 0.1 mA/ 0.01 mA (H), 10 μA/ 1 μA (M), 1 μA/ 0.1 μA (L)
- Constant Voltage (CV)/Constant Current (CC) Output Mode
- Power Supply/Electronic Load Switching Function
- Power Output On/Off Control, And Provides Output/Cutoff Delay Function
- Voltage And Current Slew Rate Control Function
- Remote Sense Design Can Perform Voltage Compensation Function
- Sequence Programming Power Output Function
- Bleeder Circuit Control
- Provides Voltage Average Function (Off, High, Middle, Low)
- Data Collection Function
- External Series & Parallel Connection Functions Can Be Set, Up to Four Series or Parallel Power Output
- Provides Safety Protection Mechanisms: OVP, OCP, OTP, Reverse Polarity Protection, Panel Lock Function
- Provides USB-TMC/CDC, LAN, GPIB (Option) Communication Interface
- Utilizes 2.4-Inch TFT-LCD and Provides Three Screen Display Modes
- Temperature Controlled Fan Design
- GRA-441-J/E Supports Rack GRA-441-J/E

Applications

Scientific Research and Experimental Testing
Battery Charge and Discharge Test
Applications Requiring Low Noise and Stable Voltage Output
Electronic Parts Measurement
3C Electronic Product Measurement

Appearance



1. 2.4-Inch LCD	13. Power Output Terminals
2. Value Adjustment/Confirmation Knob	14. Remote Voltage Compensation Terminal
3. Arrow Keys, Used to Select the Number of Digits	15. Heat Dissipation Area
4. Detailed Function Keys	16. GPIB Interface
5. Sequence Function Keys	17. USB Host & Device Interface
6. Data Log Function Key	18. Network Interface
7. Protection Function Setting Key	19. Control I/O Interface
8. Output On/Off Switch	20. Trigger IN/OUT Interface
9. Panel Lock Key	21. Cooling Fan
10. Display Screen Selection Key	22. AC Input Voltage Selection Switch (Bottom of The Machine)
11. Shift Key	23. AC Input Power Port
12. Power Switch	

Important Information of Product Ordering

Key Dates for Product Announcement

1. Distributor Announcement Order Queue Open (Jun 20, 2025)
2. Global Market Announcement (Jun 20, 2025)

Service Policy

- One year warranty. GPP-1000 Series Single Channel Programming Linear DC Power Supply provides a standard one-year warranty.
- Service support -- The GPP-1000 Series Single Channel Programming Linear DC Power Supply is a high-resolution and high-stability test and measurement instrument. The accuracy of the product needs to be calibrated after maintenance. Therefore, the maintenance requires the instrument to be sent to GW Instek.

Marketing documents and service manuals can be downloaded via the Internet. GW Instek will continue to provide after-sales services via the Internet. The latest marketing documents and service manuals for the GPP-1000 Series Single Channel Programming Linear DC Power Supply will be announced at the distributor zone of the GW Instek website at http://www.gwinstek.com.

Ordering Information

Part No.	Model	Description of product name	EAN Code
GPP-1205	01PP120500GS	100 W Single Channel Programming Linear DC Power Supply (USB, LAN)	4711458122812
GPP-1205 (GPIB)	01PP120510GS	100 W Single Channel Programming Linear DC Power Supply (USB, LAN, GPIB)	4711458122829
GPP-1323	01PP132300GS	96 W Single Channel Programming Linear DC Power Supply (USB, LAN)	4711458122836
GPP-1323 (GPIB)	01PP132310GS	96 W Single Channel Programming Linear DC Power Supply (USB, LAN, GPIB)	4711458122843
GPP-1205 (EU Type)	01PP120520GS	100 W Single Channel Programming Linear DC Power Supply (USB, LAN)	4711458123086
GPP-1205 (GPIB) (EU Type)	01PP120530GS	100 W Single Channel Programming Linear DC Power Supply (USB, LAN, GPIB)	4711458123093
GPP-1323 (EU Type)	01PP132320GS	96 W Single Channel Programming Linear DC Power Supply (USB, LAN)	4711458123109
GPP-1323 (GPIB) (EU Type)	01PP132330GS	96 W Single Channel Programming Linear DC Power Supply (USB, LAN, GPIB)	4711458123116

Standard Accessories

Power Cord x 1, Packing List x 1,
Test lead: Non-European: GTL-104A x 1
Test lead: European: GTL-204A x 1

Optional information

GTL-303	RF Cable, for Trigger In/Out use
GRA-441-J	Rack mount kit JIS
GRA-441-E	Rack mount kit EIA

Product FAB

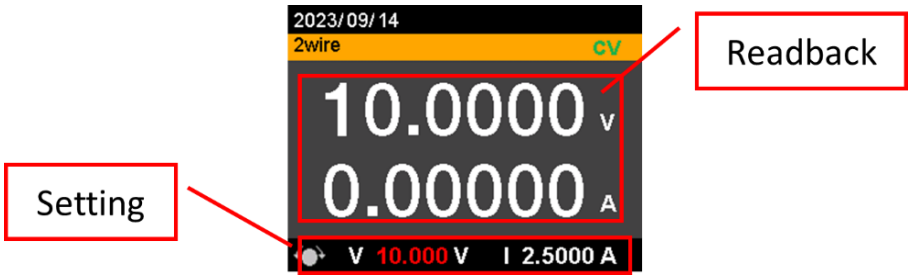
Features	Advantages	Benefits
Linear power supply output characteristics	Low noise and low ripple characteristics provide pure power output	Linear power supply characteristics are suitable for pure power applications
Power supply/electronic load switching function	The output can be set as a power supply or electronic load according to the needs	Reduces procurement costs
Precise voltage/current setting range	Provides more accurate voltage and current setting values	Suitable for low power test applications
Remote Sensing function	More accurate voltage output and measurement	Reduces measurement inaccuracy caused by lead voltage drop
Setting value check/confirmation function	Displays the set value and actual output value at the same time	Quickly understand the value and improve measurement efficiency
External series-parallel connection function	Expanded charging voltage/current range	Applicable to more measurement applications
Sequence power function	Variable power output can be planned according to test requirements	Applicable to Burn-in test
OVP, OCP, OTP functions	Improves operational safety during use	Reduces the chance of damage to the machine or the DUT
Output logger function	Provides long-term value records of voltage/current	Convenient for users to record or analyze the status of the DUT
Control I/O Function	Provides external control function	Can be triggered and controlled by peripheral devices (such as PLC control)
Diversified communication interfaces	Provides USB-TMC/CDC, LAN, GPIB communication interface	Meets customers' different interface requirements

Product Feature Description

High Measurement Resolution

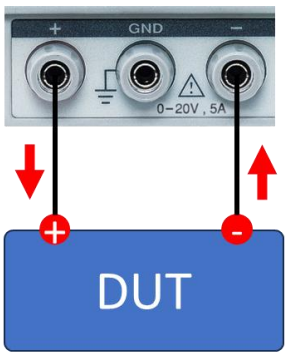
This series has a synchronous display function, which can simultaneously display the set value and the actual readback value after the output is turned on, ensuring the accuracy of the test process.

- Voltage Resolution: Set/readback resolution is up to 1 mV / 0.1 mV, providing fine voltage control.
- Current resolution: Supports three settings/readback resolution:
  - High (H): 0.1 mA / 0.01 mA
  - Middle (M): 10 µA / 1 µA
  - Low (L): 1 µA / 0.1 µA

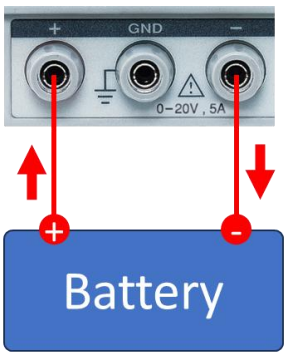


Electronic Load Function

- The GPP-1000 series can switch between Power Mode and DC Load Mode. In Power Mode, it can provide the stable power required by the DUT, while Electronic Load Mode is suitable for applications such as battery discharge testing.
- The electronic load function supports two setting modes: CV (constant voltage) and CC (constant current), allowing users to flexibly adjust load conditions according to test requirements to ensure accurate test results.



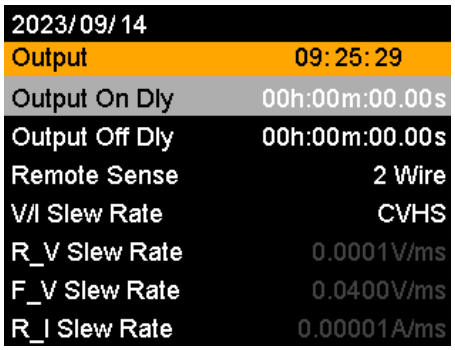
Power Mode



DC Load Mode

Power On/Off Delay Function

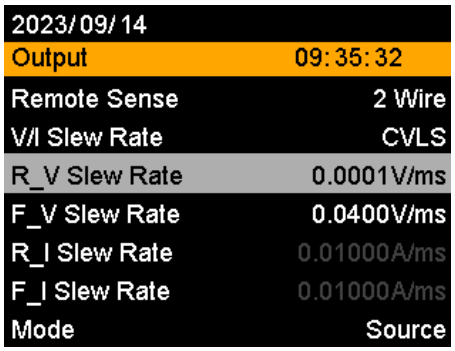
- The output on/off delay time can be set to improve test flexibility.
- Support 2-Wire / 4-Wire output, suitable for different test environments.
- Can be set from 00h:00m:00.00 s to 99h:59m:59.99 s, providing precise time control.



Power Output Slew Rate Setting Function

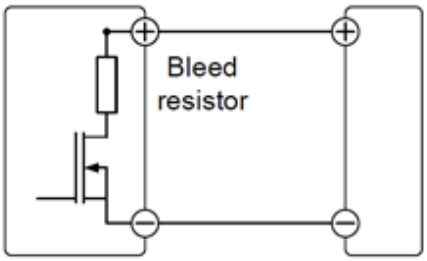
With voltage and current output slew rate settings, it can be adjusted according to test requirements to ensure stability and accuracy.

- **High-speed priority mode (CVHS, CCHS)**: Uses the fastest slew rate of the instrument, suitable for test environments that require fast response.
- **Slew rate priority mode (CVLS, CCLS)**: Output is based on the slew rate set by the user, providing more detailed control.



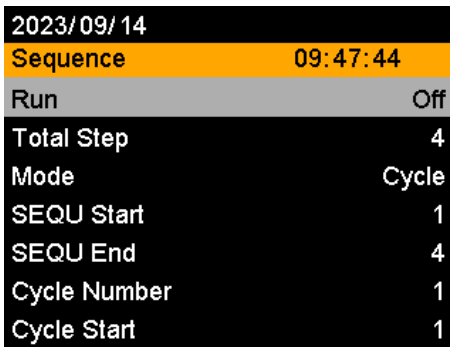
Bleeder Resistor Design

This series adopts the parallel bleeder resistor design for the first time, which can quickly release the stored energy of the power filter capacitor to avoid the impact of surges. This design can also serve as a minimum voltage load to ensure stable voltage regulation and improve system reliability.



Sequence Power Output

The GPP-1000 series has waveform editing and sequence output functions, and can set CV/CC loading to meet various testing requirements. The device can store up to 5 test scripts in the internal memory or USB disk, and supports CSV files, which can be edited and analyzed through Excel and imported into the machine through a USB flash drive (Save/Recall) to improve test efficiency.

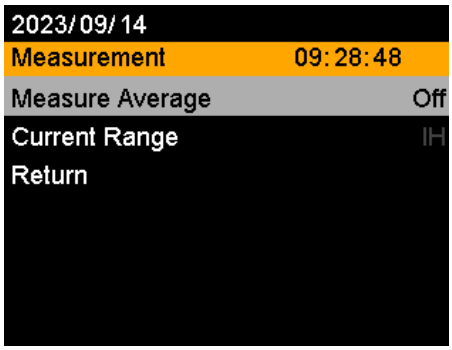


Voltage Average Output Function

Power supplies usually only display real-time values. This function can set the sampling speed of the average value measurement, which is divided into Off (no sampling), High (high speed), Middle (medium speed), and Low (low speed), providing more stable test results.

Sampling speed affects display changes:

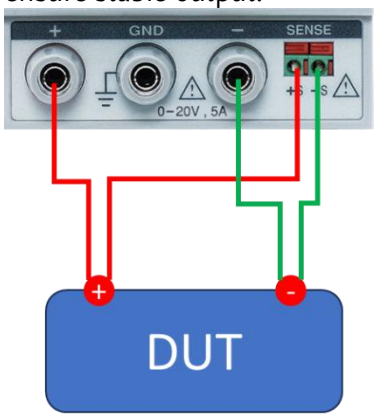
- Low: The slowest speed, suitable for stable testing.
- Middle: Medium speed, with both accuracy and immediacy.
- High: fastest speed, suitable for dynamic change testing.

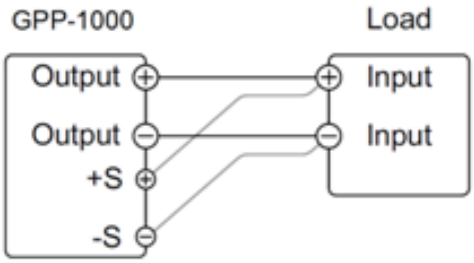


Remote Sensing Function

Remote Sensing compensates for voltage drops between the power supply output and the load, preventing the resistance of the test leads from affecting accuracy. When testing, users should

choose a connection line with a voltage drop less than the power supply compensation range to ensure stable output.

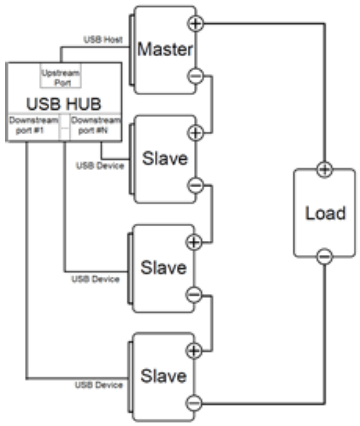




External Series-Parallel Connection Control

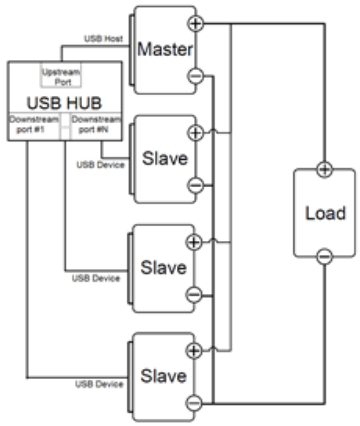
Provides external series-parallel connection application to flexibly expand output capacity. A maximum of 4 units can be connected in series or in parallel, which is suitable for high-power testing needs.

- **External series connection: 1 to 4 units, can increase the output voltage, up to 128 V (GPP-1323).**



Number of Series unit (Max V / I)		
Model	GPP-1205	GPP-1323
1 unit	20V / 5A	32V / 3A
2 units	40V / 5A	64V / 3A
3 units	60V / 5A	96V / 3A
4 units	80V / 5A	128V / 3A

- **External parallel connection: 1 to 4 units, can increase output current, up to 20 A (GPP-1205).**



Number of Parallel unit (Max V / I)		
Model	GPP-1205	GPP-1323
1 unit	20V / 5A	32V / 3A
2 units	20V / 10A	32V / 6A
3 units	20V / 15A	32V / 9A
4 units	20V / 20A	32V / 12A

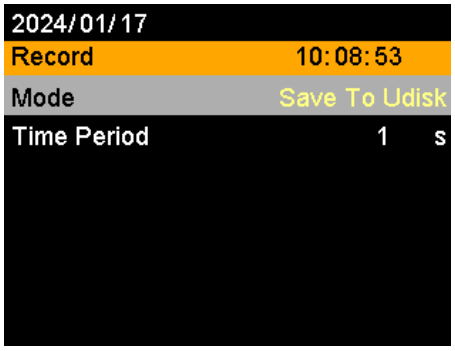
Recording Function

The data logging and remote transmission function can store the voltage, current and time data during the test to a USB flash drive, or transmit it to a program for analysis via remote control.

- Users can enter the Record function through the RECO button on the front of the machine.

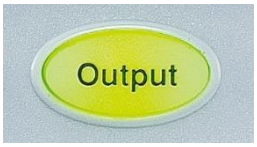
- Set the recording time range from 1 second to 999 seconds, convenient for long-term testing.
- The series supports three different data collection modes to enhance test flexibility and accuracy.

Mode	Contents
None	The Recording function will not be executed
Save to Udisk	To store data in USB, users need to insert the USB flash drive first.
Remote (LAN)	Stores data to a remote location via LAN
Remote (USB)	Stores data on a remote PC via USB



Output On/Off Function

With output On/Off control function, it can effectively avoid unnecessary damage caused by pre-output when the DUT is connected to the power supply. Users can first set voltage and current parameters and confirm that all wiring is complete, and then manually execute output through the front panel to ensure the safety and accuracy of the test process.

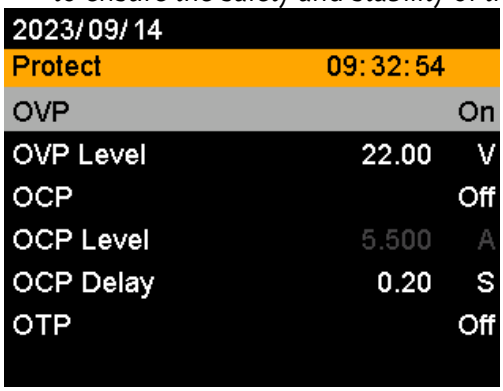


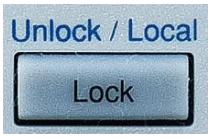
Multiple Protection Functions

The GPP-1000 series provides a variety of protection mechanisms to improve the reliability and stability of the equipment.

Use hardware circuits to implement OVP (overvoltage protection), OCP (overcurrent protection), and OTP (overtemperature protection). Compared with software protection mechanisms, it has a faster response time and can quickly stop power output when the voltage or current of the DUT exceeds the set value, ensuring the safety of the equipment and load

- In order to prevent an uninformed third party from changing the setting parameters and causing damage to the DUT, a panel lock function is provided. Users can activate this function to ensure the safety and stability of the test environment.





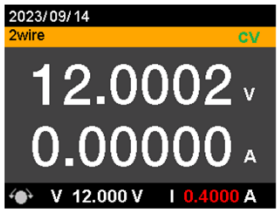
Provides Multiple Communication Interfaces

- The GPP-1000 series has a variety of communication interfaces, including USB Host/Device, LAN, and optional GPIB. The USB Device supports both USB-TMC and USB-CDC modes, providing flexible remote control options.

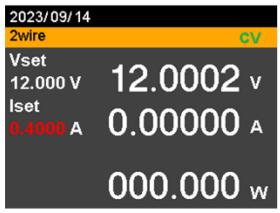
- The series is equipped with Control I/O and Trigger In/Out, which can perform status control with external devices to improve the integration and automation capabilities of the test.

Three Screen Display Modes

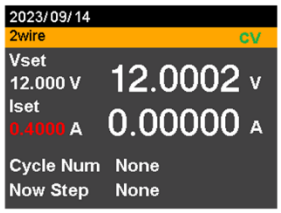
The GPP-1000 series uses a 2.4-inch TFT LCD to provide clear data display and supports three display modes: V/I, V/I/W and V/I + Sequence. Users can flexibly choose the appropriate display mode according to test requirements, improving operational convenience and data visualization.



Voltage / Current



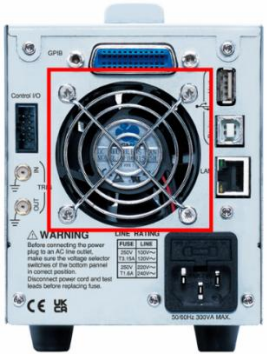
Voltage / Current / Watt



Voltage / Current / Sequence

Temperature Controlled Fan Function

The GPP-1000 series uses a temperature-controlled fan design that adjusts the speed according to the internal temperature of the machine to ensure stable operation and maintain specification consistency. This design not only effectively controls the temperature inside the machine, but also reduces the noise generated by the fan speed, providing a quieter operating environment.



Comparison

Compare with the existing products

Product comparison for PSS-Series

		GPP-1000 Series		PSS-Series	
		GPP-1323	GPP-1205	PSS-3203	PSS-2005
Output	Voltage	32.000 V	20.000 V	32.00 V	20.00 V
	Current	3.0000 A	5.0000 A	3.000 A	5.000 A
	Power	96 W	100 W	96 W	100 W
Tracking Function	Series	External 1 to 4 units		N/A	N/A
	Parallel	External 1 to 4 units			
Line regulation	Voltage	≤ 0.01 % + 3 mV		≤ 3 mV	
	Current	≤ 0.2 % + 3 mA		≤ 3 mA	
Load regulation	Voltage	≤ 0.01 % + 3 mV (≤ 3 A) ≤ 0.01 % + 5 mV (> 3 A)		≤ 3 mV / ≤ 5 mV (> 3.0 A)	
	Current	≤ 0.2 % + 3 mA		≤ 3 mA / ≤ 5 mA (> 3.0 A)	
Ripple & Noise	Constant Voltage	≤ 0.5 mVrms		Ripple: ≤ 1 mVrms / Noise: ≤ 2 mVrms	
	Constant Current	≤ 2 mArms		≤ 3 mArms / ≤ 5 mArms (> 3.0 A)	
DC Load	Max Power	96 W	100 W	N/A	N/A
	Mode	CV, CC	CV, CC		
Setting / Readback Resolution	Programming	1 mV / (H) 0.1 mA, (M) 10 µA, (L) 1 µA		10 mV / 1 mA	
	Readback	0.1 mV / (H) 0.01 mA, (M) 1 µA, (L) 0.1 µA		10 mV / 1 mA	
Recovery Time		≤ 100 µs		≤ 100 µs	
Protection		OVP, OCP, OTP		OVP, OCP	
Features	Display	2.4" TFT LCD (320 x 240)		LCD Display	
	Ext. Series & Parallel	●		-	
	Key lock	●		-	
	Intelligent cooling fan	●		-	
	Power ON/OFF setting	●		●	
	EXT I/O control	●		●	
Interface		LAN, USB-TMC/CDC, GPIB (Option)		RS-232, GPIB (Option)	
Dimensions & Weight		107 (W) x 124 (H) x 313 (D) mm, 5.5 kg		108 (W) x 142 (H) x 318 (D) mm, 4.8 kg	

Specifications

(The specifications apply when the GPP-1205/1323 are powered on for at least 30 minutes under +20 °C to +30 °C.)

SPECIFICATIONS		
	GPP-1323	GPP-1205
OUTPUT RATING		
Output Voltage	0.000 V to 32.000 V	0.000 V to 20.000 V
Output Current	0.0000 A to 3.0000 A	0.0000 A to 5.0000 A
Output Power	96 W	100 W
LOAD		
Power	96 W	100 W
Current	3.0000 A	5.0000 A
Setting Range (CV)	3.000 V to 32.000 V	3.000 V to 20.000 V
Setting/Readback Accuracy (CV)	≤ 0.1 % + 30 mV	
Resolution (CV)	1 mV	
Setting Range (CC)	0 A to 3.0000 A	0 A to 5.0000 A
Setting/Readback Accuracy (CC)	≤ ± 0.3 % + 10 mA	
Resolution (CC)	0.1 mA	
VOLTAGE		
Line Regulation	± (0.01 % of setting + 3 mV)	
Load Regulation	≤ 0.01 % + 3 mV (rating current ≤ 3 A)	
	≤ 0.02 % + 5 mV (rating current > 3 A)	
Transient Response	< 100 µs	
Ripple Noise	0.8 mVrms	
Setting Range	33.6 V	21 V
Rise Time	≤ 100 ms	
Fall Time	≤ 100 ms	
Maximum Remote Sensing Compensation Voltage (Single Line)	1 V	
Temperature Coefficient (TYP.)	300 ppm/°C	
CURRENT		
Line Regulation	≤ 0.1 % + 3 mA	
Load Regulation	≤ 0.1 % + 3 mA	
Setting Range	3.15 A	5.25 A
Ripple Noise (Arms)	≤ 2 mArms	
Temperature Coefficient (TYP.)	300 ppm/°C	
RESOLUTION		
Voltage	Programming 1 mV, readback 0.1 mV	
Current	Programming 0.1 mA, readback 0.01 mA (H)	
	Programming 10 µA, readback 1 µA (M)	
	Programming 1 µA, readback 0.1 µA (L)	
ACCURACY		
Setting Accuracy	Voltage: ± (0.03 % of reading + 10 mV)	
	Current: ± (0.3 % of reading + 10 mA) (H)	
	Current: ± (0.3 % of reading + 1 mA) (M)	
	Current: ± (0.3 % of reading + 0.1 mA) (L)	
Readback Accuracy	Voltage: ± (0.03 % of reading + 10 mV)	
	Current: ± (0.3 % of reading + 10 mA) (H)	
	Current: ± (0.3 % of reading + 1 mA) (M)	
	Current: ± (0.3 % of reading + 0.1 mA) (L)	

OVP		
Setting Range	1.8 V to 35.2 V	1.0 V to 22.0 V
Setting Accuracy	± 100 mV	
Operation	Turns the output off, displays OVP	
OCP		
Setting Range	0.15 A to 3.3 A	0.25 A to 5.5 A
Setting Accuracy	± 20 mA	
Operation	Turns the output off, displays OCP	
OTP		
Operation	Turns the output off, displays OTP	
TRIGGER SIGNAL *1		
Trigger Input	A high- or low-level CMOS signal is applied for 100 μs or longer.	
	It receives a pulse to perform actions like power output, V/I set operation or memory recall.	
Trigger Output	Trigger output: approx. 3.3 V Pulse width: approx. 1 ms, Output impedance: approx. 50 Ω	
	It outputs a pulse when power output, V/I set operation or memory recall is executed.	
STATUS SIGNAL OUT *1*2		
OUT ON/OFF Status	Turns on when the output is on	
CV Status	Turns on during CV operation	
CC Status	Turns on during CC operation	
ALM Status	Turns on when an alarm has been activated	
PWR ON Status	Turns on when the power is turned on	
INTERFACE CAPABILITIES		
LAN	MAC Address, Gateway IP Address, Instrument IP Address, Subnet Mask	
USB	Type A: Host, Type B: Slave, Speed: 1.1/2.0, USB-CDC/TMC	
GPIB (Factory Optional)	SCPI-1993, IEEE 488.2 compliant interface	
SERIES AND PARALLEL CAPABILITY		
Parallel Number	4 units	
Series Number	4 units	
INPUT CHARACTERISTICS		
Nominal Input Voltage	100 Vac / 120 Vac / 220 Vac / 240 Vac (± 10 %)	
Input Frequency Range	50 Hz / 60 Hz	
Max. Inrush Current	30 A max or less	
Max. Power Consumption	300 VA	
INSULATION RESISTANCE		
Between Chassis and Terminal	20 MΩ or above (DC 500 V)	
Between Chassis and AC Power Cord	30 MΩ or above (DC 500 V)	
GENERAL SPECIFICATIONS		
Display	2.4-inch TFT LCD	
Operating Environment	Indoor use, Overvoltage Category II	
Altitude	Maximum 2000 m	
Operating Temperature	0 °C to 40 °C	
Storage Temperature	-20 °C to 70 °C	
Operating Humidity	20 % to 80 % RH; No condensation	
Storage Humidity	20 % to 85 % RH; No condensation	
Accessory	Power Cord x 1, Packing List x 1, Test lead: Non-European: GTL-104A x 1 Test lead: European: GTL-204A x 1	
Dimensions	107 mm x 124 mm x 313 mm (W x H x D) (not including protrusions)	

Weight	Approx. 5.5 kg

***1. EXT I/O connector on the rear panel.**
***2. Open collector output: Maximum voltage of 30 V and maximum current of 8 mA. The common line for the status pins is floating (isolated voltage of 60 V or less), it is isolated from the output and control circuits.**

This information is subject to change without notice.

ORDERING INFORMATION				
Model		Output Volts (V)	Output Amps (A)	Weight (kg)
GPP-1205	100 W Single Channel Programming Linear DC Power Supply (USB, LAN)	0 V to 20 V	0 A to 5 A	5.5
GPP-1205 (GPIB)	100 W Single Channel Programming Linear DC Power Supply (USB, LAN, GPIB)	0 V to 20 V	0 A to 5 A	5.5
GPP-1323	96 W Single Channel Programming Linear DC Power Supply (USB, LAN)	0 V to 32 V	0 A to 3 A	5.5
GPP-1323 (GPIB)	96 W Single Channel Programming Linear DC Power Supply (USB, LAN, GPIB)	0 V to 32 V	0 A to 3 A	5.5
ACCESSORIES				
Standard	Power Cord x 1, Packing List x 1, Test lead: Non-European: GTL-104A x 1 Test lead: European: GTL-204A x 1			
Optional	GTL-303 RF Cable, for Trigger In/Out use GRA-441-J Rack mount kit JIS GRA-441-E Rack mount kit EIA			

Should you have any questions on the GPP-1000 Series Single Channel Programming Linear DC Power Supply announcement, please don't hesitate to contact us.

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